

Search

FILE 'REGISTRY' ENTERED AT 13:05:47 ON 14 AUG 2004

L1 1 SEA ABB=ON PLU=ON SILICON/CN  
D  
L2 1 SEA ABB=ON PLU=ON CARBON/CN  
D  
L3 1 SEA ABB=ON PLU=ON GRAPHITE/CN  
D  
L4 1 SEA ABB=ON PLU=ON SILICON CARBIDE/CN  
D

FILE 'CAPLUS' ENTERED AT 13:08:04 ON 14 AUG 2004

L5 6380 SEA ABB=ON PLU=ON (LIQUID? (5A) (L1 OR SILICON))  
L6 1218805 SEA ABB=ON PLU=ON (L2 OR L3 OR CARBON OR GRAPHITE?)  
L7 671 SEA ABB=ON PLU=ON L5 AND L6  
L8 191 SEA ABB=ON PLU=ON L7 AND (COAT? OR IMPREGN? OR INFILT?)  
L9 5582 SEA ABB=ON PLU=ON LSI  
L10 60 SEA ABB=ON PLU=ON (LIQUID SILICON INFILTR?)  
L11 57 SEA ABB=ON PLU=ON L8 AND (L9 OR L10)  
L12 1 SEA ABB=ON PLU=ON L11 AND CALIBR?  
D ALL  
L13 88557 SEA ABB=ON PLU=ON (L4 OR (SILICON CARBIDE?))  
L14 286 SEA ABB=ON PLU=ON L7 AND L13  
L15 143 SEA ABB=ON PLU=ON L14 AND (COAT? OR IMPREGN? OR INFILT?)  
L16 1 SEA ABB=ON PLU=ON L15 AND CALIBR?  
D ALL  
L17 60 SEA ABB=ON PLU=ON (LIQUID SILICON INFILTR?)  
L18 60 FOCUS L17 1-  
L19 1 SEA ABB=ON PLU=ON L17 AND CALIBR?  
D ALL  
L20 0 SEA ABB=ON PLU=ON L8 AND CALIBR  
L21 1 SEA ABB=ON PLU=ON L8 AND CALIBR?  
D ALL

=>

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 7440-21-3 REGISTRY  
 CN Silicon (7CI, 8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN CZ-N Polished wafer  
 CN Hexsil  
 CN HGH 600  
 CN KDB 20  
 CN Metasilicon 325A  
 CN Polysilicon  
 CN SI 1059  
 CN Sicomill 4C-P  
 CN Sicomill Grade 2  
 CN Silgrain Standard  
 CN Silicon element  
 CN SILSO  
 DR 17375-03-0, 72516-01-9, 72516-02-0, 72516-03-1, 71536-23-7, 152284-21-4,  
 90337-93-2, 157383-37-4, 160371-18-6  
 MF Si  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,  
 CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DIOGENES,  
 DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,  
 HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC,  
 PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USPAT2,  
 USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;  
 Preprint; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC  
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
 PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role  
 in record)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
 study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);  
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
 NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
 study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Si

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

389708 REFERENCES IN FILE CA (1907 TO DATE)  
 7123 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 390053 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 7440-44-0 REGISTRY

CN Carbon (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1262R97

CN 207A

CN 207A (carbon)

CN 207E3

CN 20SPD

CN 2C98

CN 3GX

CN 4GCX

CN 4GM

CN 606R97

CN AC 01

CN AC 01 (adsorbent)

CN AC 100

CN AC 100 (adsorbent)

CN AC 40

CN AC 40 (adsorbent)

CN Acticarbon 25K

CN Acticarbon ENO

CN Acticarbon TK

CN Actitex CS 1501

CN Activated carbon

CN AG 2

CN AG 2 (catalyst support)

CN AG 2-4

CN AG 3

CN AG 3 (adsorbent)

CN AG 5

CN AG 5 (adsorbent)

CN AG 95

CN AG 95 (carbon)

CN AG-M

CN AG-M (carbon)

CN AG-OV 1

CN AGN 1

CN AGN 1 (carbon)

CN AGN 2

CN AGN 2 (carbon)

CN AGN 3

CN AGS 3

CN AGS 4

CN AGS 4 (adsorbent)

CN AK

CN AK (adsorbent)

CN Amoco PX 21

CN Anthrasorb

CN APB 10C

CN AR 2

CN AR 2 (carbon)

CN AR 3

CN AR 3 (carbon)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
DISPLAY

DR 12789-22-9, 130960-03-1, 67167-41-3, 114680-00-1, 37196-29-5, 137322-21-5,  
76416-61-0, 82600-58-6, 83138-28-7, 26837-67-2, 39422-04-3, 39434-34-9,  
116788-82-0, 208519-32-8, 208728-20-5

MF C

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,

BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIOGENES, DIPPR\*,  
DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*,  
IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS,  
NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT,  
USPAT2, USPATFULL, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAPLUS document type: Book; Conference; Dissertation; Journal; Patent;  
Preprint; Report  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role  
in record)  
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);  
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
NORL (No role in record)  
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study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

C

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

280987 REFERENCES IN FILE CA (1907 TO DATE)  
11326 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
281249 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 7782-42-5 REGISTRY  
CN Graphite (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1502ZV  
CN 160-50N  
CN 220-50N  
CN 3203HS  
CN 48NF  
CN 5099SS3  
CN 50LTE-UN  
CN 5890PT  
CN 5BDN  
CN 5BGN  
CN 8099H  
CN 8099L  
CN 8099M  
CN 80LTE-U  
CN A 1109  
CN A 3  
CN A 3 (graphite)  
CN A 625  
CN A 99  
CN A 99 (graphite)  
CN ACB 100  
CN ACB 150  
CN Acheson 545  
CN ACP  
CN ACP (filler)  
CN ACP 1000  
CN ACP 20NB  
CN ACP 3000  
CN Aerodag G  
CN Aerolor A 05  
CN Aerolor A 21  
CN AG 1500  
CN AGP 60S  
CN AGSX  
CN Airco 60  
CN AM 9060  
CN AMI 1226  
CN AO 35  
CN AOP  
CN AP 2  
CN AP 2 (graphite)  
CN AQ  
CN Aqua-Dag  
CN Aqua-Dag E  
CN AS 1  
CN Asbury 3120  
CN Asbury 3243  
CN Asbury 3264  
CN Asbury 3335  
CN Asbury 3427

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
DISPLAY

DR 164973-65-3, 12751-41-6, 1399-57-1, 159251-18-0, 50814-81-8, 115344-49-5,  
37265-44-4, 37265-48-8, 72840-52-9, 155660-93-8, 82696-74-0, 82696-75-1,  
82701-02-8, 82701-03-9, 82701-04-0, 82701-05-1, 82701-06-2, 82709-42-0,  
83797-07-3, 84739-05-9, 87934-03-0, 156854-02-3, 182761-22-4

MF C

CI MNS, COM

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,

CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

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RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

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C

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

89737 REFERENCES IN FILE CA (1907 TO DATE)

1645 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

89813 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 409-21-2 REGISTRY

CN Silicon carbide (SiC) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 0Y15  
CN 100FT  
CN 37C150  
CN A 20  
CN A 20 (carbide)  
CN AE 60  
CN AE 60 (carbide)  
CN Annanox CK  
CN B-HP  
CN B-HP (carbide)  
CN Betarundum  
CN Betarundum ST-S  
CN Betarundum UF  
CN Betarundum Ultrafine  
CN BF 12  
CN BLOk  
CN BSC 059  
CN C 1000F  
CN C 700D Dark  
CN C 800D Dark  
CN Carbofrax M  
CN Carbogran F 180  
CN Carbogran F 36  
CN Carbogran F 80  
CN Carbogran UF 15  
CN Carbogran UF 45  
CN Carbon silicide  
CN Carborundum  
CN Ceraloy 146-1S  
CN Cercom SiC-B  
CN CGW 3  
CN CP 240  
CN CP 400  
CN Crystar  
CN Crystolon 37  
CN Crystolon 39  
CN Crystolon B  
CN Crystolon F 240  
CN Crystolon F 320  
CN DCR 100F  
CN Densic 120  
CN Densic 180  
CN Densic 220  
CN Densic 60  
CN Densic 80  
CN Densic C 150  
CN Densic C 500  
CN Densic C 600  
CN Densic GC  
CN Densic RC 31  
CN **Silicon carbide**

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
DISPLAY

DR 12504-67-5, 167972-08-9, 54500-13-9, 63686-94-2, 95918-00-6, 66039-27-8,  
37231-85-9, 145583-77-3, 76647-55-7, 148031-02-1, 78544-49-7, 146915-55-1,  
154643-50-2, 152024-73-2, 156131-38-3, 92843-12-4, 84149-55-3, 86755-24-0,  
160073-05-2, 215780-01-1, 259092-53-0, 288149-69-9

MF C Si

CI COM, MAN  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM\*, DIPPR\*,  
EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*, IFICDB,  
IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*,  
TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)  
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;  
Preprint; Report  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU  
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
(Reactant or reagent); USES (Uses); NORL (No role in record)  
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
study); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
(Reactant or reagent); USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU  
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
(Reactant or reagent); USES (Uses); NORL (No role in record)  
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

81005 REFERENCES IN FILE CA (1907 TO DATE)  
582 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
81075 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1364 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>



=> file reg

FILE 'REGISTRY' ENTERED AT 18:20:24 ON 12 AUG 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 American Chemical Society (ACS)

=> display history full ll-

FILE 'HCAPLUS' ENTERED AT 17:29:57 ON 12 AUG 2004

L1 314 SEA KRENKEL ?/AU  
L2 1059 SEA RENZ ?/AU  
L3 7 SEA BENITSCH ?/AU  
L4 1 SEA L1 AND L2 AND L3

FILE 'REGISTRY' ENTERED AT 17:30:56 ON 12 AUG 2004

L5 1 SEA 7440-21-3  
L6 1 SEA 7440-44-0  
L7 1 SEA 409-21-2  
L8 719 SEA (SI(L)C)/ELS (L) 2/ELC.SUB

FILE 'LCA' ENTERED AT 17:34:18 ON 12 AUG 2004

L9 19434 SEA (DETECT? OR SENSE# OR SENSING# OR ANALY? OR ANAL# OR  
ASSAY? OR EST# OR ESTN# OR ESTIMAT? OR QUANTIF? OR  
QUANTITAT? OR CALCULAT? OR CALC# OR CALCN# OR MEASUR? OR  
MONITOR?)/BI,AB  
L10 3688 SEA (DETECTOR? OR COUNTER? OR SENSOR? OR SPECTROG? OR  
SPECTROMET? OR PYROMET? OR METER# OR METRE# OR GAUGE? OR  
INDICATOR? OR RECORDER? OR ANALYZER? OR SCANNER? OR  
COMPARATOR? OR INSPECTOR? OR MONITOR?)/BI,AB  
L11 19716 SEA (DETERMIN? OR DETERMN# OR DET# OR DETN# OR EVALUAT?  
OR ASCERTAIN? OR RECOGNI? OR IDENTIF? OR INDICAT? OR  
DISTINGUISH? OR TEST OR TESTS OR TESTED OR TESTING# OR  
DIAGNOS?)/BI,AB  
L12 7736 SEA (DEVICE? OR CONTRIVANCE? OR INVENTION? OR APPARAT?  
OR APP## OR IMPLEMENT? OR INSTRUMENT? OR TOOL? OR  
UTENSIL? OR EQUIP? OR ASSEMBLY OR ASSEMBLIES)/BI,AB

FILE 'HCA' ENTERED AT 17:37:45 ON 12 AUG 2004

L13 318880 SEA (L9 OR L10 OR L11 OR CALIBRAT?) (2A) (L12 OR BODY OR  
BODIES)  
L14 3287 SEA GONIOMET?  
L15 106403 SEA L7 OR L8 OR (SILICON OR SI) (W) CARBIDE# OR SIC  
L16 389332 SEA L5  
L17 280933 SEA L6

FILE 'REGISTRY' ENTERED AT 17:45:22 ON 12 AUG 2004

L18 E GRAPHITE/CN  
1 SEA GRAPHITE/CN

FILE 'HCA' ENTERED AT 17:47:22 ON 12 AUG 2004

L19 189378 SEA L18 OR GRAPHIT?  
L20 76734 SEA (L6 OR L18 OR CARBON# OR CARBONACEOUS? OR CARBONIFERO  
US? OR C OR GRAPHIT?) (2A) (FIBER? OR FIBR? OR FILIFORM?  
OR FILAMENT? OR STRAND? OR RIBBON? OR THREAD? OR  
WHISKER?)  
L21 18060 SEA (L5 OR SILICON OR SI) (2A) (LIQ# OR LIQUID? OR LIQUEF?  
OR FLUID? OR FLUEF? OR MELT? OR MOLTEN? OR FUSE# OR  
FUSING# OR FUSION?)  
L22 5159 SEA L15 AND (L16 OR L21) AND (L17 OR L19 OR L20)  
L23 3 SEA L22 AND L14  
L24 61 SEA L22 AND L13  
L25 21 SEA L22 AND CALIBRAT?  
L26 3 SEA L24 AND L20  
L27 7 SEA L24 AND L21  
L28 21 SEA L24 AND MEASUR?  
L29 126 SEA PROTRACT!R?  
L30 1 SEA L24 AND L29  
L31 10 SEA L23 OR L26 OR L27 OR L30  
L32 36 SEA (L25 OR L28) NOT L31  
L33 35 SEA L24 NOT (L31 OR L32)  
L34 1 SEA (L32 OR L33) AND 47/SC,SX  
L35 11 SEA L31 OR L34  
L36 36 SEA L32 NOT L35  
L37 34 SEA L33 NOT (L35 OR L36)

=> file hca

FILE 'HCA' ENTERED AT 18:21:34 ON 12 AUG 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 135 1-11 cbib abs hitstr hitind

L35 ANSWER 1 OF 11 HCA COPYRIGHT 2004 ACS on STN  
140:12166 Container for determination of concentrations of silicon and  
carbon in molten pig iron from electromotive force and temperature.  
Yauchie, Ichiro; Kikuchi, Hirokichi; Mihara, Masamune (Nippon  
Therumotech K. K., Japan). Jpn. Kokai Tokkyo Koho JP 2003342625 A2  
20031203, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
2002-146546 20020521.  
AB The container is assembled with a heat-resistant container main body

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:157848 CAPLUS  
 DN 132:211623  
 ED Entered STN: 09 Mar 2000  
 TI Procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightweight structures such as measuring and clamping plates, guide rails, benches, and tables, especially for calibration, measuring, clamping, and machining  
 IN Goedtke, Peter; Kroedel, Matthias; Papenburg, Ulrich  
 PA ECM Ingenieur-Unternehmen fuer Energie- und Umwelttechnik G.m.b.h., Germany; Industrieanlagen-Betriebsgesellschaft m.b.H.  
 SO Ger. Offen., 8 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM C04B035-80  
 CC 57-8 (Ceramics)  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE         |
|------|---|------|----------|------------------|--------------|
| PI   | DE 19837768   | A1   | 20000309 | DE 1998-19837768 | 19980820 <-- |
|      | EP 987096   | A2   | 20000322 | EP 1999-116410   | 19990820     |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO |      |          |                  |              |
| PRAI | DE 1998-19837768  |      |          |                  | 19980820     |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|------------|-------|------------------------------------|
|------------|-------|------------------------------------|

|             |     |            |
|-------------|-----|------------|
| DE 19837768 | ICM | C04B035-80 |
|-------------|-----|------------|

AB Fiber-reinforced ceramics (C/SiC) or fiber-reinforced carbon (C/C) are used as the building materials; these materials are bonded to each other using adhesives or mech. connectors and then thermally bonded using the liquid silicon technique to form a monolithic structure of great mech. strength and rigidity.

ST fiber reinforced ceramics rigid lightwt structure; carbon fiber reinforced rigid lightwt structure

IT Machining  
 (holding and clamping structures; procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Holders  
 Jigs  
 Soot  
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Phenolic resins, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Carbon fibers, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT 7782-42-5, Graphite, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT 409-21-2, Silicon carbide (SiC), uses 7440-21-3, Silicon, uses 7440-44-0, Carbon, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; GB 1126930
- (2) Anon; GB 1167898
- (3) Anon; DE 19636223 A1 CAPLUS
- (4) Anon; US 2988959
- (5) Anon; DE 3018785 A1
- (6) Anon; US 3644022
- (7) Anon; EP 735387 A1 CAPLUS

RN 7782-42-5

RN 409-21-2

RN 7440-21-3

RN 7440-44-0

L4 ANSWER 2 OF 2 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2000-206988 [19] WPIX

DNC C2000-064051

TI Rigid lightweight monolithic structure, especially for measuring, clamping and machining applications, comprises ceramic-bonded carbon fiber-reinforced silicon carbide or carbon plate and support framework parts.

DC L02 P73 P81

IN GOEDTKE, P; KROEDEL, M; PAPENBURG, U

PA (ECMI-N) ECM ING UNTERNEHMEN ENERGIE & UMWELTTECH; (INDU-N) INDUSTRIEANLAGEN-BETRIEBS GMBH

CYC 25

PI DE 19837768 A1 20000309 (200019)\* 8 C04B035-80 <--

EP 987096 A2 20000322 (200019) GE B32B003-12

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI

ADT DE 19837768 A1 DE 1998-1037768 19980820; EP 987096 A2 EP 1999-116410  
19990820

PRAI DE 1998-19837768 19980820

IC ICM B32B003-12; C04B035-80

ICS B32B018-00; C04B038-00; G02B005-08

AB DE 19837768 A UPAB: 20000419

NOVELTY - A lightweight monolithic structure, comprises front and back plates (1, 2) and a support framework (3) of carbon fiber-reinforced silicon carbide or carbon (C/SiC or C/C) ceramic bonded or mechanically joined together.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for production of the above lightweight structure, in which the support framework (3) is adhesive bonded between the front plate (1) and back plate (2) using a synthetic resin and the assembly is infiltrated with molten silicon which reacts with part of the carbon to form silicon carbide and produce a rigid permanently bonded monolithic structure.

USE - As a lightweight monolithic structure especially for measuring, clamping and machining applications, e.g. as a lightweight mirror.

ADVANTAGE - The structure has a sandwich construction of high rigidity and strength even under transverse loads, is simple and inexpensive to produce and is made only of homogeneous materials having the same physical properties.

DESCRIPTION OF DRAWING(S) - The figure shows a vertical cross-sectional view of a rigid lightweight structure.

front plate 1

back plate 2

support structure 3

Dwg.1/6

FS CPI GMPI

FA AB; GI

MC CPI: L02-H02A; L02-H04; L02-J02B

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